TANK CLOSURE REPORT

ELEMENTIS PIGMENTS INC.
1525 WOOD AVENUE
EASTON, PENNSYLVANIA

DRAFT

Prepared for:

Elementis Pigments Inc.
Wycoffs Mill Road
Hightstown, New Jersey 08570

Prepared by:

Langan Engineering and Environmental Services, Inc.
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14 January, 2002
3576201

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Engineering and Environmental Services, Inc.

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1.0 INTRODUCTION

This Tank Closure Report documents the underground storage tank system closure and removal activities conducted at the Elementis Pigments Inc. facility located at 1525 Wood Avenue, Easton, Pennsylvania. A site location map is provided as Figure 1. The project involved the decommissioning and removal of two 15,000-gallon No. 4 fuel oil underground storage tanks (USTs) and associated piping and valve vault. Site assessment activities were completed following UST removal activities. Soil sampling was conducted to confirm the removal of petroleum impacted soil and groundwater sampling was conducted to determine if the shallow groundwater was impacted by the operation of the UST system. This tank closure report was prepared by Langan Engineering and Environmental Services, Inc. (Langan) for Elementis Pigments Inc. (Elementis). The work completed for this project was performed in accordance with the Pennsylvania Department of Environmental Protection (PADEP) Closure Requirements for Underground Storage Tanks Systems document, effective 1 April 1998 and the PADEP's Land Recycling and Environmental Remediation Standards Act, revised 24 November 2001.

1.1 Objective

The objective of this project was to remove two 15,000-gallon No. 4 fuel oil UST's and associated piping and valve vault, conduct required soil and/or groundwater remediation activities, and to complete an assessment of the soil and groundwater quality surrounding the UST system.

1.2 Scope of Services

The scope of services completed by Langan included:

- Contracted B & F Petroleum of Reading, Pennsylvania to complete the UST system decommissioning and removal of the two 15,000-gallon No. 4 fuel oil USTs and associated pipe runs.

- Conducted technical oversight of the UST system removal activities, soil and groundwater remediation, and backfilling activities.

- Collected post-excavation soil samples to document the complete removal of petroleum impacted soil surrounding the UST system.

- Collected groundwater samples within the excavation to determine if the shallow groundwater has been impacted by the former operations of the UST system.

- Collected waste characterization soil samples for proper disposal of petroleum impacted soil.

- Coordinated soil disposal approvals, loading and transportation of all impacted soils to R3 Technologies in Morrisville, Pennsylvania.

- Submitted all samples to Wastex of Pottstown, Pennsylvania, a PADEP certified laboratory.

- Prepared this Tank Closure Report documenting the results of the tank removal and site assessment activities.

2.0 SITE DESCRIPTION

The site is located at 1525 Wood Avenue, Northampton County, Easton, Pennsylvania. The facility is situated approximately 400 feet north of Pennsylvania State Route 22. A site location map is provided as Figure 1. The facility consists of several industrial buildings and other structures used in the production of pigments, specifically, iron oxide. The remainder of the property consists of asphalt, gravel and wooded areas. Bushkill Creek flows adjacent to the site to the east, and Spring Brook flows through the site. A site plan is provided as Figure 2.

3.0 REGIONAL AND SITE GEOLOGY

3.1 Regional Geologic Setting

The subject site is located within the Great Valley Section of the Ridge and Valley Physiographic Province according to the Pennsylvania Department of Conservation and Natural Resources Physiographic Provinces Map of Pennsylvania, 2000. This province is characterized by very broad valleys with low to moderate relief. The rock type includes shale and sandstone.

According to the Geologic Map of Pennsylvania (1980), the Leithsville Formation exists below the site which is from the Cambrian Age. This formation is characterized by medium to dark gray crystalline dolomite that is light olive-green in places weathered to light gray and yellowish brown. Massive bedded oolitic pink to gray mottled chert and

dark gray chert are present with thin shale and dolomitic shale interbeds and scattered sand grains.

The overburden material at the location of the site is classified as urban land, according to the Surficial Geology of the Pennsylvania Part of the Easton 7.5 Quadrangle, Northampton County, Pennsylvania, Pennsylvania Geological Survey, Fourth Series (Duane D. Brown, Open File Report 96-38, 1996). Urban land is characterized as cut and fill disturbing more than 50 percent of the ground surface which includes most areas with homes on one-half acre or smaller lots, commercial sites and industrial sites.

According to the United States Department of Agriculture Soil Conservation Service Soil Survey of Northampton County the site consists of urban land (Us) that occasionally floods. This soil is characterized by smooth or slightly concave flood plains. The soil material varies in color or in texture, but all of it consists of water-laid sediment. Most of the areas are long and narrow and parallel nearby streams. The groundwater median yield is 100 gallons per minute with larger yields obtained from solution openings according to the Engineering Characteristics of the Rocks of Pennsylvania, Department of Environmental Resources, Office of Resources Management, Bureau of Topographic and Geologic Survey (1982).

3.2 Site Geology

The majority of subsurface material encountered during the excavation activities consisted of gray, fine stone backfill material. The native soil that was encountered on the sidewalls of the excavation consisted of light brown fine sand and silt with trace

amounts of mottled gray clay. Groundwater was encountered in the excavation at a depth generally between seven (7) and nine (9) feet below grade.

4.0 UST SYSTEM REMOVAL AND SITE ASSESSMENT ACTIVITIES

Between 11 October and 19 October 2001, UST system removal and site assessment activities were conducted at the Elementis Facility. The UST activities consisted of the decommissioning and removal of two single-walled steel 15,000-gallon No. 4 fuel oil UST's and associated piping and valve vault, performing soil remediation and site assessment activities. The site assessment activities consisted of an evaluation of the soil surrounding the UST system and the groundwater within the excavation. In addition, soil load out was completed on 20 November 2001 and 14 December 2001 to remove the petroleum impacted soil from the site. The UST system removal was completed by B & F Petroleum of Reading, Pennsylvania. An environmental scientist from Langan was onsite during the entire removal activities to conduct air monitoring, technical oversight and soil and groundwater sampling.

4.1 UST System Removal

On 11 October 2001, site activities were initiated. In house site plans of the UST system location were obtained and reviewed to locate underground utilities and the system configuration. Sludge and product was observed in the two USTs No. 6 (from 6 to 18 inches). Hazleton Oil Salvage of Hazelton, Pennsylvania was contracted to vacuum out the remaining sludge. Hazleton Oil pumped the remaining residual product, although the vacuum truck that was used was unable to vacuum the remaining sludge due to its high viscosity. The remainder of the sludge was removed after the tanks were removed from the excavation. Removal of the soil surrounding the two 15,000-gallon USTs began on

11 October 2001 with a John Deere 690D excavator. Clean backfill was removed from the north and east side of the USTs and staged onsite. A formerly abandoned in-place railroad car was identified on the east side of the excavation approximately two to three feet below grade. According to Elementis personnel, this railroad tanker car was formerly used for storing fuel oil and was previously abandoned in place.

The product pipes were drained and removed from a pipe trench that led to the adjacent pump house. In addition, a valve vault containing piping and valves associated with the USTs, pump house and remote fill ports was removed. The pipe trench was constructed of an earthen floor and wood sidewalls, and was two (2) feet deep. The valve vault was a 4.5 foot by 5.5 foot concrete cell with a concrete floor, 3.5 foot deep, partially situated below existing grade. The wood, metal piping and concrete removed from these structures were staged for proper disposal.

4.2 Soil and Groundwater Remedial Activities

Between 11 and 18 October 2001, highly stained soil was observed at a depth of six feet below grade. The removal of this soil was completed extending to the top of the water table throughout the entire excavation which was initially encountered at a depth of 7 to 9 feet.

Between 15 and 17 October 2001, a vacuum truck was onsite to remove the product/water mixture in the tanks and the observed free product on the water surface.

Impacted soil removal was staged on poly sheeting pending proper disposal. Separate phase product was observed on the groundwater, although it was not of measurable

thickness. Upon removal of all accessible impacted soils, the metal tie down straps anchoring the USTs to the concrete slab were removed and both USTs were removed from the resting position.

On 17 October 2001, a 70-ton Am Quip Crane was used to remove both USTs from the excavation. The USTs were placed on trailers for transport to Troxell Iron and Scrap in Lehighton, Pennsylvania for recycling. A copy of the tank disposal documentation is included in Appendix A. After removal, small holes were observed on the bottom of each UST. Additional impacted backfill material was removed below the water table, which was observed at approximately ten (10) feet below grade once the tanks were removed. The vacuum truck was used to remove the film of product that was observed on the groundwater surface. Following UST removal, the remainder of the sludge was removed from the interior of the tanks.

On 18 October 2001, Hazelton Oil vacuumed additional product from the groundwater surface that reappeared overnight. UST and impacted soil disposal and oil recycling documentation is presented in Appendix B. A total of 6,750 gallons of No. 4 fuel oil/water mixture was removed from the USTs and excavation. Additional impacted backfill material was removed down to the concrete anchor slabs, which were encountered at approximately 15 feet below grade. In addition, visually impacted soil on the excavation sidewalls was removed. Groundwater was encountered at depths ranging between eight and nine feet below grade. Additional product was vacuumed from the groundwater surface before back filling was initiated. A photoionization detector was used to conduct air monitoring and screen soils not visibly stained for the presence of volatile organic compounds throughout the entire UST system removal.

A total of 332.93 tons of impacted soil and 6,750 gallons of oil and water were removed from the UST excavation. Soil and liquid disposal documentation is included in Appendix B.

Photographic documentation of the UST system removal is presented in Appendix C.

The excavation was backfilled with ¾-inch clean stone to two feet below grade and 2A modified stone to grade. Two groundwater observation points were installed to an approximate depth of 15 feet in the excavation during backfilling activities on 18 and 19 October 2001. The groundwater observation points consisted of 4-inch diameter 40 Schedule PVC screening and riser pipe with a flush-mount protective steel casing installed at grade. These points were installed to allow for monitoring for the presence of free phase NAPL in the excavation. Subsequent site inspections were conducted on 20 November and 14 December 2001. No free phase NAPL was observed in either observation point.

4.3 Soil and Groundwater Sampling Procedures and Results

Upon completion of soil excavation and product removal activities, post-excavation soil sampling activities were conducted in the tank and pipe trench excavation to confirm the complete removal of impacted soil above the water table. Soil sampling was completed with a stainless steel spatula directly from the excavator bucket and transferred to the sample bottles. The soil samples were analyzed for benzene and naphthalene by U.S. EPA Method 8260B, and fluorene, anthracene, phenanthrene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(a)pyrene and benzo(g,h,i)perylene by U.S. EPA Method 8270C.

Post-excavation soil samples PE-1 and PE-2 were collected from 3.5 feet to 4 feet below grade. Sample PE-1 was collected in the pipe trench on the west side of the valve vault, and PE-2 was collected below the two remote fill ports. Three soil samples (PE-3 through PE-5) were collected from three excavation sidewalls at the six-inch interval above the groundwater surface on 18 October 2001. Two soil samples (PE-6 and PE-7) were collected at the six-inch interval above the groundwater surface in the pipe trench on 19 October 2001. Soil samples in the pipe trench were biased toward piping elbows and joints. Table 1 presents a summary of the post excavation soil sampling results. Figure 3 illustrates the post-excavation soil sampling locations and results.

No targeted volatile organic or base neutral compounds were detected above the PADEP Residential Soil Medium Specific Concentrations (MSC's) in any collected samples (PE-1 to PE-7). No targeted compounds were detected in the trip blank.

In addition, two groundwater samples (GW-1 and GW-2) were collected from the excavation. The groundwater samples were collected with a disposable bailer and transferred directly to the sample bottles. The groundwater samples were analyzed for benzene and naphthalene by U.S. EPA Method 8260B and phenanthrene, pyrene and chrysene by U.S. EPA Method 8270C. A summary of the groundwater results in presented on Table 2. Figure 3 illustrates the groundwater sample locations and results.

A summary of the groundwater sampling results is as follows:

- Benzene and naphthalene were not detected above their respective PADEP Residential Used Aquifer Groundwater MSCs in either of the collected groundwater samples.

- Chrysene (4 ug/l) was detected in sample GW-1 above it's PADEP Groundwater MSC of 1.9 ug/l. Phenanthrene (15 ug/l) and pyrene (3 ug/l) were also detected in GW-1 below their respective PADEP Residential, Used Aquifer Groundwater MSCs.

- Phenanthrene (4 ug/l) was detected in sample GW-2 below its respective PADEP Groundwater MSC.

- No targeted compounds were detected in the field or trip blanks.

A summary of the analytical results are presented on Tables 1 and 2 and annotated on Figure 3. Complete laboratory data packages are included in Appendix D.

4.4 Quality Assurance/Quality Control

The following sections outline the field and laboratory quality assurance/quality control measures that were incorporated into this investigation.

Equipment Decontamination

All sampling equipment was decontaminated to prevent cross-contamination which could result in inaccuracies in the sample analytical results. All soil samples were collected using a decontaminated stainless steel spatula or trowel. Prior to and between field

implementation, all equipment was manually scrubbed with non-phosphate detergent and rinsed with tap water followed by a DI water rinse.

Equipment Calibration

The Photoionization Detector (PID) was calibrated with certified calibration gas prior to field implementation. The scale utilized for soil sampling using methanol extraction/preservation method was calibrated using certified calibration weights.

Field Blanks & Trip Blanks

Field quality assurance/quality control for soil sampling was documented through trip blanks. Soil trip blanks consist of laboratory grade methanol prepared by the analytical laboratory, which accompany soil samples at a rate of one per shipment, or two-day sampling event. Field quality assurance and control for groundwater sampling was documented through field and trip blanks. Groundwater trip blanks consist of laboratory prepared bottles of DI water, which accompany water samples at a rate of one per shipment or 2 day sampling event. Field blanks are prepared by using laboratory provided DI water and pouring it over clean stainless steel trowels and collecting the water in sample bottles.

4.5 Waste Characterization and Disposal

Two waste characterization soil samples of the excavated soil material were collected on 18 October 2001. The samples were analyzed for total organic halides (TOX), total petroleum hydrocarbons (TPH), corrosivity, ignitability, reactivity, poly-chlorinated biphenyl's (PCBs) and total metals which included arsenic, barium, cadmium, total chromium, copper, lead, mercury, nickel, selenium, silver and zinc. Two additional

waste characterization samples of the excavated material were collected on 20 November 2001 and analyzed for TOX and TPH to support additional volume of soil.

After sample collection, all samples were immediately transferred to a sample shuttle in which the internal atmosphere was maintained at 4°C and delivered to Wastex Industries of Pottsville, Pennsylvania. All soil samples analyzed for volatile organic compounds were collected using methane preservation/extraction method.

Upon receipt of the analytical results, the impacted soils were approved by and taken to R3 Technologies of Morrisville, Pennsylvania. A total of 332.93 tons of soil was taken to R3 Technologies for thermal treatment. A copy of the soil treatment documentation is included in Appendix C.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Soil

During UST system removal, heavy fuel oil staining was observed at depths generally greater than six feet below grade. Observed impacts above the groundwater surface were excavated until visual and PID readings were minimal. This generally corresponded to a depth of 9 feet. Approximately 332 tons of impacted backfill material and native soil was excavated and properly treated. Seven post excavation soil samples were collected between the UST and pipe trench excavations. No exceedances of the PADEP Residential Soil MSC's were detected in any of the collected soil samples. Based on these conclusions and observations, no further action with respect to the soil is recommended.

5.2 Groundwater

The former operation of the UST system has impacted the shallow groundwater at the site. This conclusion is based on the groundwater impacts that were observed during the UST system removal as separate phase petroleum product on the groundwater surface. The film of product observed on the groundwater surface was removed using a vacuum truck. The analytical results from the collected groundwater samples revealed that only chrysene was identified above the PADEP Residential, Used Aquifer Groundwater MSC. In addition, no separate phase product was observed on the groundwater surface in the existing well points in recent measurements taken on 20 November and 14 December 2001. Site groundwater is currently being investigated under a separate project. Based on these conclusions and the current remedial work being completed with respect to groundwater, no further action is recommended as part of the UST removal.

TABLES

Table 1
Elementis Pigments, Inc
Easton, Pennsylvania
Summary of Post Excavation Soil Sampling Analytical Results

Parameters	PADEP Residential Used Aquifer Soil MSC TDS < 2,500	Sample ID / Sample Location / Lab Sample Number / Sampling Date / Depth (feet) / Units	001 **PE-1** AC33001 12-Oct-01 3.5'-4' Result	002 **PE-2** AC33002 12-Oct-01 3.5'-4' Result	006 **PE-3** AC33006 18-Oct-01 9.5'-10' Result	007 **PE-4** AC33007 18-Oct-01 9.5'-10' Result	008 **PE-5** AC33008 18-Oct-01 9'-9.5' Result	011 **PE-6** AC33011 19-Oct-01 7'-7.5' Result	012 **PE-7** AC33012 19-Oct-01 7'-7.5' Result	009 **TB** AC33009 n/a n/a Result
Volatile Organic Compounds										
benzene	0.5	mg/kg	<0.240	<0.210	<0.220	<0.240	<0.240	<0.310	<0.230	<0.230
naphthalene	25	mg/kg	<0.360	<0.320	<0.330	<0.350	<0.350	<0.470	1.7	<0.350
Base Neutral Compounds										
fluorene	3000	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	2.6	4.1	NA
anthracene	350	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	<0.790	<0.790	NA
phenanthrene	10,000	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	5.5	7.0	NA
pyrene	2,200	mg/kg	<0.081	0.077	<0.078	<0.079	<0.083	1.2	1.2	NA
benzo(a)anthracene	25	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	<0.790	<0.790	NA
chrysene	230	mg/kg	<0.081	0.11	<0.078	<0.079	<0.083	1.0	1.1	NA
benzo(b)fluoranthene	25	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	<0.790	<0.790	NA
benzo(a)pyrene	2.5	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	<0.790	<0.790	NA
benzo(ghi)perylene	180	mg/kg	<0.081	<0.073	<0.078	<0.079	<0.083	<0.790	<0.790	NA

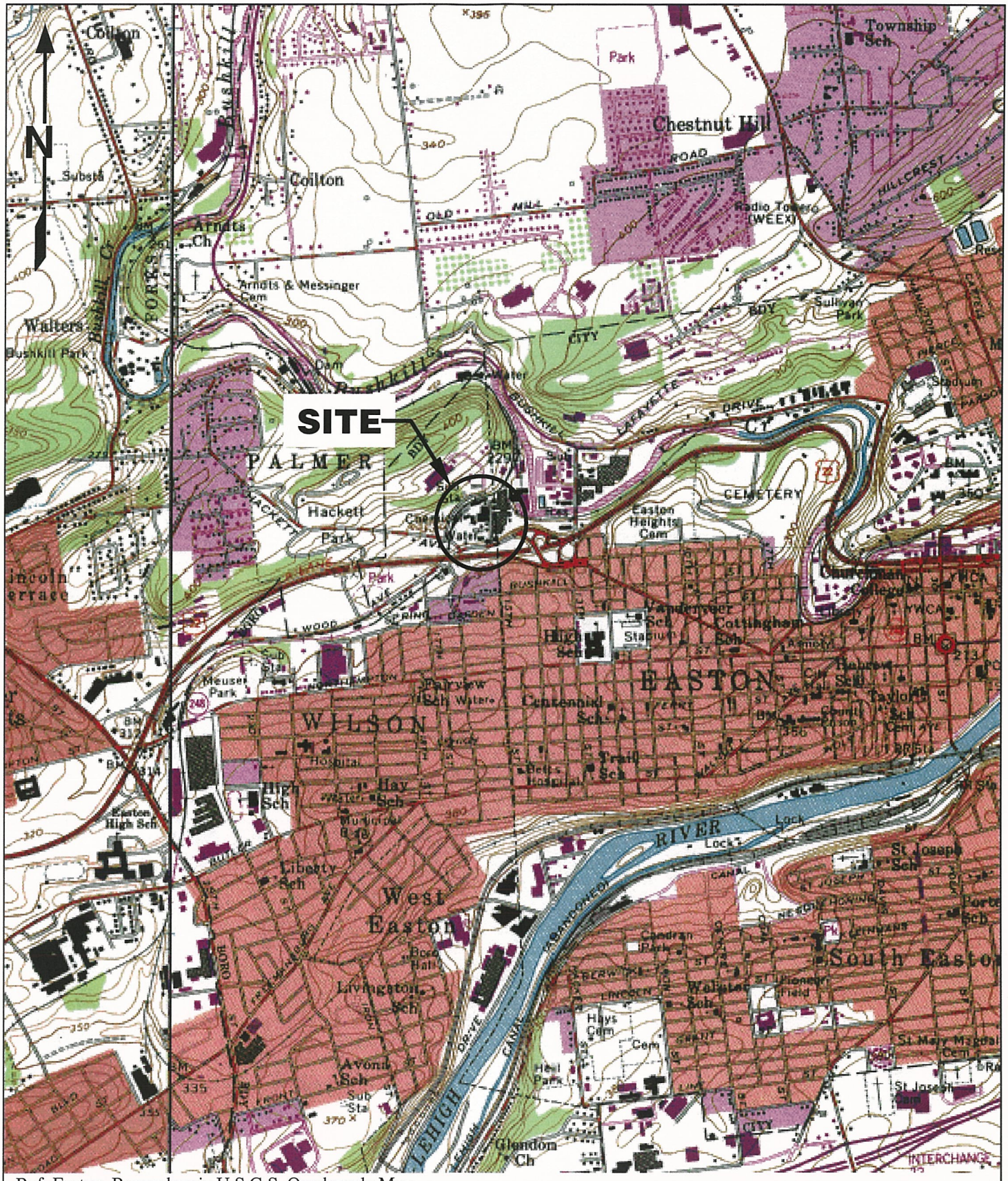
mg/kg-milligrams per kilogram
NA-Not Analyzed
ND-Not Detected
n/a-Not applicable
MSC-Medium Specific Concentration

Table 2
Elementis Pigments, Inc
Easton, Pennsylvania
Summary of Groundwater Sampling Analytical Results

Parameters	PADEP Residential Used Aquifer Groundwater MSC TDS < 2,500	Sample ID / Sample Location / Lab Sample Number / Sampling Date / Depth (feet) / Units	003 GW-1 AC33003 18-Oct-01 n/a Result	004 GW-2 AC33004 18-Oct-01 n/a Result	005 FB AC33005 18-Oct-01 n/a Result	010 TB AC33010 n/a n/a Result
Volatile Organic Compounds						
benzene	5	ug/l	<0.002	<0.002	<0.002	<0.002
naphthalene	100	ug/l	22	9	<0.003	<0.003
Base Neutral Compounds						
phenanthrene	1100	ug/l	15	4	<0.002	NA
pyrene	130.0	ug/l	3	<0.002	<0.002	NA
chrysene	1.9	ug/l	4	<0.002	<0.002	NA
mg/kg-milligrams per kilogram	4	Exceeds PADEP Residential Used Aquifer Groundwater MSC				

NA-Not Analyzed
ND-Not Detected
n/a-Not applicable
MSC-Medium Specific Concentration

FIGURES



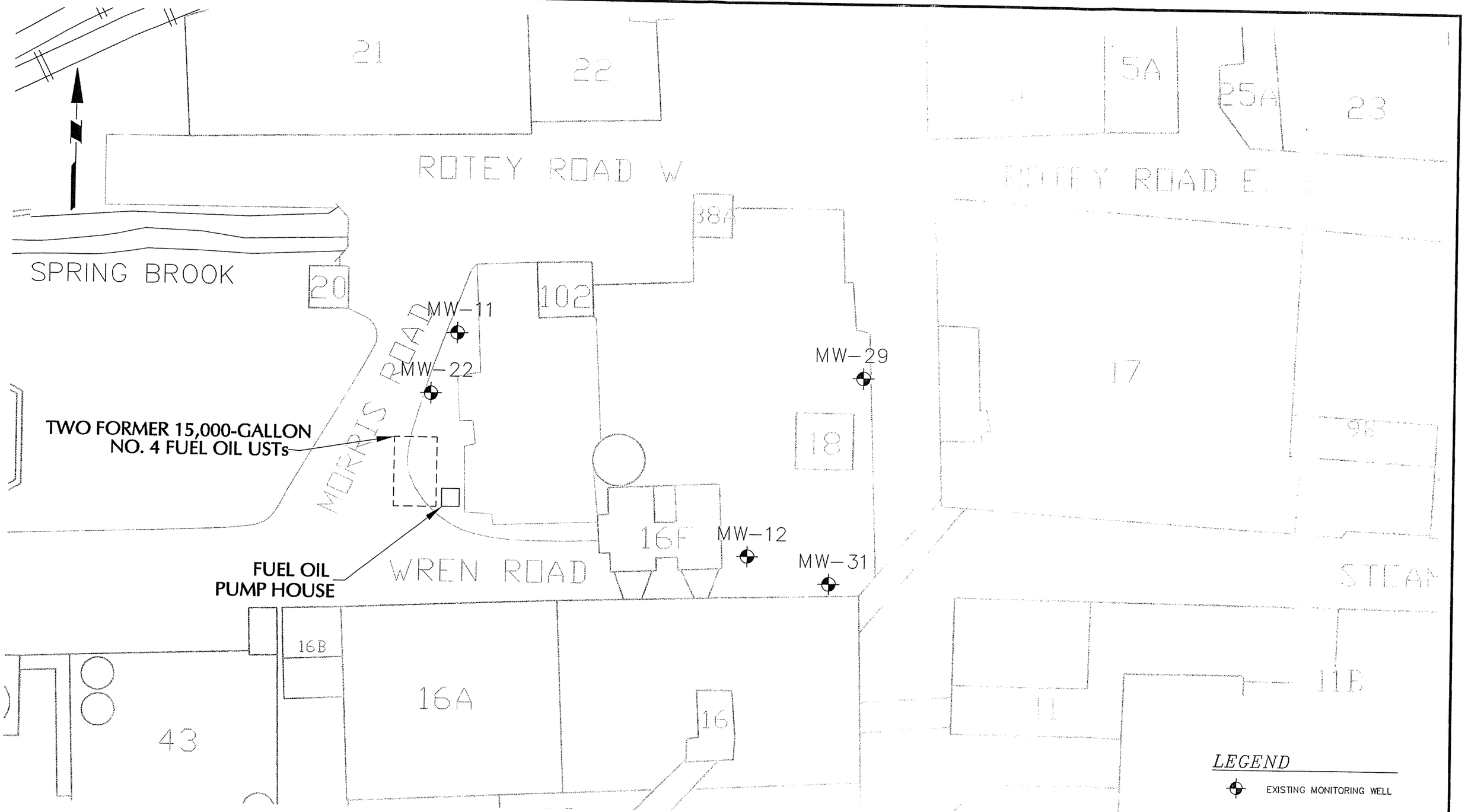
Ref: Easton, Pennsylvania U.S.G.S. Quadrangle Map

Langan Engineering and Environmental Services, Inc
Elmwood Park ,NJ Doylestown, PA Philadelphia, PA
Miami, FL New Haven, CT New York, NY

Elementis Pigments, Inc.
Site Location Map

Easton Pennsylvania

Job No. 3576201	Date 10-29-01	Scale 1"=2000'	Fig. 1



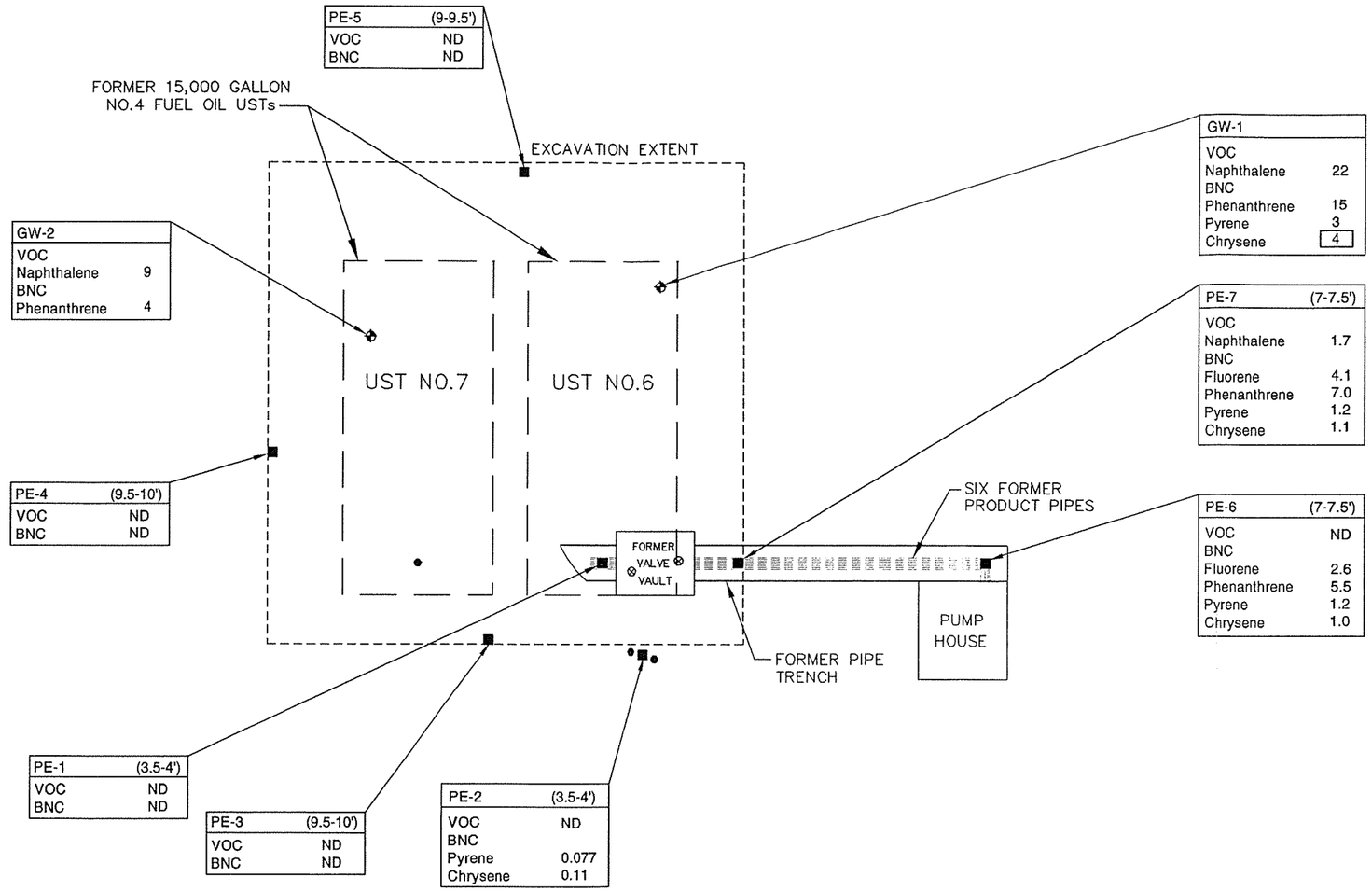
NOTE:
ALL BUILDING AND EXISTING MONITORING WELL LOCATIONS ARE APPROXIMATE BASED ON ELEMENTIS PIGMENTS PLANT MAP, DRAWING FGR103975, DATED 8/9/90, (REVISED 1/99).

Langan Engineering and Environmental Services
(201) 794-6900 (215) 348-7101
Elmwood Park,NJ Doylestown,PA. Miami,FL

ELEMENTIS PIGMENTS, INC.
SITE PLAN

EASTON PA

Job No.	Date	Scale	FIGURE NO.
3576201	1-11-02	APPROX. 1"=50'	2



LEGEND

■	POST–EXCAVATION SOIL SAMPLE
⊕	GROUNDWATER SAMPLE LOCATION
●	FILL PORT
VOC	VOLATILE ORGANIC COMPOUNDS (INCLUDE Benzene and Naphthalene)
BNC	BASE NEUTRAL COMPOUNDS (INCLUDE Fluorene, Anthracene, Phenanthrene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthrene, Benzo(a)pyrene, Benzo(ghi)perylene. GROUNDWATER SAMPLES WERE ONLY ANALYZED FOR Phenanthrene, Pyrene and Chrysene.
ND	COMPOUNDS NOT DETECTED ABOVE THE METHOD DETECTION LIMIT
4	EXCEEDS PADEP GROUNDWATER MEDIUM SPECIFIC CONCENTRATION

NOTES:

1. ALL RESULTS ARE PRESENTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
2. ONLY RESULTS DETECTED ABOVE THEIR RESPECTIVE MDL ARE PRESENTED

Langan Engineering and Environmental Services
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Elmwood Park,NJ Doylestown,PA. Miami,FL

Project
ELEMENTIS PIGMENTS, INC.
POST–EXCAVATION SOIL AND GROUNDWATER SAMPLE LOCATIONS AND RESULTS
EASTON PENNSYLVANIA

Job No.	Date	Scale	Dwg. No.
3576201	01–07–02	1"=10'	3

Filename: C:\Data2\3576201\Cadd Data – 3576201\Dwg\POST_EXCAV_RESULTS.dwg Date: 1/14/2002 Time: 12:45 User: estevenson Style Table: Langan.stb Layout: B Size Sheet (Bottom

APPENDIX A

TANK DISPOSAL DOCUMENTATION

(TO BE PROVIDED WITH FINAL REPORT)

APPENDIX B

SOIL AND LIQUID DISPOSAL DOCUMENTATION

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
Phone# 800-458-3496 or 570-454-3464
EPA# PA0000101816 - PADEP# 301295

H.O.S. LTD. TAKES FULL RESPONSIBILITY
For The Pickup, Transportation And Disposition Of All Waste Effluent Accepted By Our Company
YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

Customer PO # 1051
Phone
Bill To: B+F Petroleum
Address
City, State Reading Pa Zip

WORK ORDER #
№ 60150

Date 10/11/01 Driver / Vehicle BM / 94
Job Site Elementis Pigments
Address City
Wood Ave Easton PA
Time Arrived Time Finished

QUANTITY	UNITS	IF PRICED: USE AS YOUR INVOICE	UNIT PRICE	TOTALS
400	gal	Waste Water pumped		
600	gal	Waste #2 fuel oil pumped from UST		
TANK CLEANING	✓IF YES	EXCESS TANK TIME: hrs. min.		
Driver Signature if COD		✓ IF CASH / CHECK NUMBER / NET 15 DAYS	TOTAL:	

GENERATOR CERTIFIES HIS WASTE OIL PRODUCT IS NOT MIXED WITH HAZARDOUS WASTE OR MEASURABLE QUANTITIES OF PCB'S

Accepted by: SIGN [signature] / Accepted by: PRINT / Representative of:

1227

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
Phone # 800-458-3496 or 570-454-3464
EPA # PA0000101816 - PADEP # 301295

H.O.S. LTD. TAKES FULL RESPONSIBILITY
For The Pickup, Transportation And Disposition Of All Waste Effluent Accepted By Our Company
YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

Customer PO # 1015 WORK ORDER # № 59647
Phone
Bill To: B+F Coal
Address
City, State Reading Zip

Date 10/15/01 Driver Vehicle
Job Site Elementis Pigments
Address City
Easton
Time Arrived 12:00 / 11:00 Time Finished 3:00

IF PRICED: USE AS YOUR INVOICE

QUANTITY	UNITS		UNIT PRICE	TOTALS
1,730	gals	#4 oil tank bottoms pumped from (2) 15K UST		
		Van Ft Inc		
TANK CLEANING	✓IF YES	EXCESS TANK TIME: hrs. min.		
Driver Signature if COD	✓ IF CASH	CHECK NUMBER	NET 15 DAYS	TOTAL:

GENERATOR CERTIFIES HIS WASTE OIL PRODUCT IS NOT MIXED WITH HAZARDOUS WASTE OR MEASURABLE QUANTITIES OF PCB'S

Accepted by: SIGN Accepted by: PRINT Representative of:
Brad Mescavage / Langan Eng.

Quick Print Shop Hazleton PA

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201
Phone # 800-458-3496 or 570-454-3464
EPA # PA0000101816 - PADEP # 301295

H.O.S. LTD. TAKES FULL RESPONSIBILITY
For The Pickup, Transportation And Disposition Of All Waste Effluent Accepted By Our Company
YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

Customer PO # 10013 WORK ORDER # № 60359
Phone
Bill To: B+F Petroleum
Address
City, State Reading PA Zip

Date 10/17/01 Driver BM / Vehicle 97
Job Site Elementis Pigments
Address Easton City PA 18042
Time Arrived 12:45 Time Finished 2:45

QUANTITY	UNITS	IF PRICED: USE AS YOUR INVOICE	UNIT PRICE	TOTALS
1300	gal	Waste Water pumped from UST		
TANK CLEANING	✓IF YES	EXCESS TANK TIME: hrs. min.		
Driver Signature if COD	✓ IF CASH	CHECK NUMBER	NET 15 DAYS	TOTAL:

GENERATOR CERTIFIES HIS WASTE OIL PRODUCT IS NOT MIXED WITH HAZARDOUS WASTE OR MEASURABLE QUANTITIES OF PCB'S

Accepted by: SIGN Jack Barr / Accepted by: PRINT / Representative of:

HAZLETON OIL SALVAGE LTD.

P.O. Box No. 2339 Hazleton, PA 18201

Phone # 800-458-3496 or 570-454-3464

EPA # PA0000101816 - PADEP # 301295

H.O.S. LTD. TAKES FULL RESPONSIBILITY

For The Pickup, Transportation And Disposition Of All Waste Effluent Accepted By Our Company

YOU CAN TRUST US WITH ALL YOUR DISPOSAL NEEDS

WORK ORDER # 60763

Customer PO #

Phone

Bill To: B+F Pet

Address

City, State Reading Zip

Date 10/18/01 Driver / Vehicle [illegible]

Job Site Elementis Pigments

Address Easton City

Time Arrived 8:00 Time Finished 3:00

QUANTITY	UNITS	IF PRICED: USE AS YOUR INVOICE	UNIT PRICE	TOTALS
2,720	gals	Waste water + oil emulsion and #4 oil tank bottoms pumped from excavation and (2) 15K UST's		
		Vac Tk Svc -		
TANK CLEANING	✓IF YES	EXCESS TANK TIME: hrs. min.		
Driver Signature if COD	✓ IF CASH	CHECK NUMBER / NET 15 DAYS	TOTAL:	

GENERATOR CERTIFIES HIS WASTE OIL PRODUCT IS NOT MIXED WITH HAZARDOUS WASTE OR MEASURABLE QUANTITIES OF PCB'S

Accepted by: *SIGN* [signature] / Accepted by: *PRINT* / Representative of:

Globe Print Shop - Hazleton, PA

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5947
Date:11/20/01
Time In:12:03 PM

Time Out:12:03 PM
Manifest#:55401

ON: LANGAN ENGINEERING

b: LAN0111010A4

dauler: OVERLAND TRANSPORT

ruck: ovl 595

Gross: 76220
are: 23180

det: 53040 Lbs. 26.52 Tons

roduct: NO. 4 OIL

595

Lic: 06041

[redacted]

Manifest No.: 55401

R3 technologies

R$_3$ Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Concretes Pigments Inc

Pick-up Address: 1535 Wood Avenue ~~[illegible]~~ BTM Easton Pa.
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: 20 Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: L2A01110104

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Eng. Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.:
(if applicable)

COMPANY NAME: OVERLAND SERV.

ADDRESS: RD 537, CLARKSBURG, N.J.

Pick-up Date: 11/20/01 Truck No.: 595 Vehicle Lic. No.: AD130X/NJ

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

[signature] 11-20-01
(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5948
Date:11/20/01
Time In:12:09 PM

Time Out:12:09 PM
Manifest#:55400

CAN: LANGAN ENGINEERING

Job: LAN0111010A4

Hauler: OVERLAND TRANSPORT

Truck: LT19

Gross: 80600
Tare: 27300

Net: 53300 Lbs. 26.65 Tons

Product: NO. 4 OIL

Lic: 06041

Manifest No.: 55402

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: ______

Company Name: (Print or Type) ... Pigments Inc

Pick-up Address: 1525 Wood Avenue B&M Easton Pa
(No.) (Street) (City) (State)

Telephone Number: ______ Fax Number: ______

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: ______ Cubic Yards: 20 Other: (Specify) ______

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: RM 1 01 1101044

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Eng. Manager
(Name and Title)

2. Hauler of Waste (must be filled-in by hauler) EPA I.D. No.: /
(if applicable)

COMPANY NAME: OVERLAND

ADDRESS: Clarksburg

Pick-up Date: 11-20-01 Truck No.: DV 01 Vehicle Lic. No.: AE 67576

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: 11-20-01

[signature]
(Signature of authorized agent and title)

REGULATORY AGENCY

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5950
Date:11/20/01
Time In:01:19 PM

Time Out:01:19 PM
Manifest#:55278

: LANGAN ENGINEERING

h: LAN011101 0A4

ıdler: OVERLAND TRANSPORT

ck: LT17

ross: 86320
e: 25500

t: 60820 Lbs. 30.41 Tons

duct: NO. 4 OIL

Charlie D.

Lic: 06041

[redacted]

Manifest No.: 55278

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Clementes Pigments Inc

Pick-up Address: ~~[illegible]~~ 1525 Wood Avenue Bristol Easton Pa
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: [illegible] Other: (Specify) [illegible]

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER: LAN01 11010 A4

This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Eng. Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.:
(if applicable)

COMPANY NAME: OverLAND

ADDRESS: CLARKSBURG, NJ.

Pick-up Date: 11-20-01 Truck No.: 17 Vehicle Lic. No.: AE59696 PA.

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

[signature] 11/20/01
(Signature of authorized agent and title)

REGULATORY AGENCY

R3-TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5951
Date:11/20/01
Time In:01:32 PM

Time Out:01:32 PM
Manifest#:55277

AN: LANGAN ENGINEERING

ob: LAN0111010A4

Hauler: OVERLAND TRANSPORT

Truck: OVL 493

ross: 78860
are: 26100

Net: 52760 Lbs. 26.38 Tons

Product: NO. 4 OIL

Lic: 06041

Manifest No.: 55277

R3 technologies

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-02885

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Elements Pigments Inc.

Pick-up Address: ~~240 N 13th St~~ 1535 Wood Avenue Easton Pa. Northampton Cty
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: 20 Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: LAN 0111010A4

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Eng. Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: Overland Services.
(if applicable)

COMPANY NAME: Overland Services.

ADDRESS: Clarksburg, NJ

Pick-up Date: 11/20/01 Truck No.: 493 Vehicle Lic. No.: 192424

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

[signature] 11-20-01
(Signature of authorized agent and title)

REGULATORY AGENCY

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5952
Date:11/20/01
Time In:01:54 PM

Time Out:01:54 PM
Manifest#:55279

LAN: LANGAN ENGINEERING

Job: LAN0111010A4

Hauler: OVERLAND TRANSPORT

Truck: 059

Gross: 91160
Tare: 24920

Net: 66240 Lbs. 33.12 Tons

Product: NO. 4 OIL

Lic: 06041

Manifest No.: 55279

R3 technologies

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NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) [illegible]

Pick-up Address: ~~325 Wood Avenue~~ [illegible] (No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: [illegible] Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: [illegible]

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Env. Manager (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: Overland Svc

ADDRESS: Clarksburg WV

Pick-up Date: 11/20/01 Truck No.: 039 Vehicle Lic. No.: AP80LL

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature] (Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

[signature] 11-20-01 (Signature of authorized agent and title)

REGULATORY AGENCY

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5953
Date:11/20/01
Time In:05:35 PM

Time Out:05:35 PM
Manifest#:55280

AN: LANGAN ENGINEERING

ob: LAN0111010A4

auler: OVERLAND TRANSPORT

ruck: DVL

Gross: 83900
are: 26600

et: 57300 Lbs. 28.65 Tons

roduct: NO. 4 OIL

Lic: 06041

[redacted]

Manifest No.: 55280

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Clementon [illegible] Inc

Pick-up Address: 1525 Wood Avenue ~~640 [illegible]~~ [illegible] Pa
(No.) (Street) (City) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: 7 Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: [illegible]

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Eng. Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.:
(if applicable)

COMPANY NAME: OVERland

ADDRESS: Clarksburg NJ

Pick-up Date: 11-20-01 Truck No.: [illegible] Vehicle Lic. No.: AE-6657

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date:

(Signature of authorized agent and title) 12/11/2001

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5955
Date:11/21/01
Time In:06:15 AM

Time Out:06:15 AM
Manifest#: 55501

AN: LANGAN ENGINEERING

ob: LAN0111010A4

Hauler: OVERLAND TRANSPORT

ruck: OVL 493

Gross: 76420
are: 26100

Net: 50320 Lbs. 25.16 Tons

roduct: NO. 4 OIL

Lic: 08041

Manifest No.: 55501

R3 technologies

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NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: 55501

Company Name: (Print or Type) Elements Pennant

Pick-up Address: 1525 (No.) Woodland (Street) Easton (City) Pa. (State)

Telephone Number: ______ Fax Number: ______

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: ______ Cubic Yards: 20 Other: (Specify) ______

Waste Type: Petroleum Cont Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER: LAN 0111610 A4

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/20/01 Signature: [signature] Env. Manager (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: ______ (if applicable)

COMPANY NAME: Omland

ADDRESS: Clarksburg NJ

Pick-up Date: 11-20-01 Truck No.: 493 Vehicle Lic. No.: 192424

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]

(Signature of authorized agent and title)

NOTE: BROKEN TOP BOARD BY LOADER SJM Langan

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: 11-21-01

[signature]

(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:5954
Date:11/21/01
Time In:06:12 AM

Time Out:06:12 AM
Manifest#:55403

ON: LANGAN ENGINEERING

ob: LAN0111010A4

Hauler: OVERLAND TRANSPORT

ruck: LT17

Gross: 82720
are: 25500

Net: 57220 Lbs. 28.61 Tons

roduct: NO. 4 OIL

Lic: 06041

Manifest No.: 55403

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: 55403

Company Name: (Print or Type) Elementis Pigments Inc.

Pick-up Address: 1525 (No.) Wood Avenue (Street) Easton (City) PA (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: none

PROFILE / WASTE STREAM I.D. NUMBER: ~~EAN~~ 01110104

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 11/xx/01 Signature: [signature] Eng. Mgr.
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: Overland

ADDRESS: CLARKSBURG, NJ.

Pick-up Date: 11-20-01 Truck No.: 17 Vehicle Lic. No.: AE 59696 PA.

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[signature]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: 11-21-01.

[signature]
(Signature of authorized agent and title)

REGULATORY AGENCY

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:6406
Date:12/14/01
Time In:01:22 PM

Time Out:01:22 PM
Manifest#:55503

: LANGAN ENGINEERING

: LAN0111010A4

uler: OVERLAND TRANSPORT

ck: LT19

ss: 77840
e: 26300

t: 51540 Lbs. 25.77 Tons

oduct: NO. 4 OIL

- Lic: 06041

Manifest No.: 55503

R3 technologies

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NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Elementis Pigments Inc.

Pick-up Address: 1525 (No.) Wood Ave (Street) Easton Pa. (City) (N.H.) (State)

Telephone Number: Fax Number:

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: Cubic Yards: 20 Other: (Specify)

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: LAN 0111018A4

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12/14/01 Signature: [illegible] Engineering Manager (Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: (if applicable)

COMPANY NAME: Overland Trans.

ADDRESS: Parkersburg NJ

Pick-up Date: 12-14-01 Truck No.: 1119 Vehicle Lic. No.: AE59694

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

[illegible]

(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: 12-14-01

(Signature of authorized agent and title)

REGULATORY AGENCY

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:6407
Date:12/14/01
Time In:01:30 PM

Time Out:01:30 PM
Manifest#:55506

N: LANGAN ENGINEERING

ab: LAN0111010A4

auler: OVERLAND TRANSPORT

uck: 777

ross: 75660
re: 25480

et: 50180 Lbs. 25.09 Tons

oduct: NO. 4 OIL

Lic: 0604

Manifest No.: 55506

R3 technologies

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NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste: _____

Company Name: (Print or Type) Elements Properties DC

Pick-up Address: 1525 Woodland Easton Pa
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: Petroleum Contaminated Soil

Special Handling Instructions, if any: None

PROFILE / WASTE STREAM I.D. NUMBER: LANO111010A4

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12/14/01 Signature: Chad Gauntt Engineering Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: Overland Trans

ADDRESS: Clarksburg NJ

Pick-up Date: 12/14/01 Truck No.: 777 Vehicle Lic. No.: AF472E

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

_____
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

_____ 12-14-01
(Signature of authorized agent and title)

R3 TECHNOLOGIES
7 STEEL ROAD EAST
MORRISVILLE, PA 19067-0847
215.428.1700

Ticket:6408
Date:12/14/01
Time In:01:35 PM

Time Out:01:35 PM
Manifest#:55505

AN: LANGAN ENGINEERING

Job: LAN0111010A4

Hauler: OVERLAND TRANSPORT

ruck: ovl 595

Gross: 76680
are: 23180

Net: 53500 Lbs. 26.75 Tons

roduct: NO. 4 OIL

Paul Phelps 595

Lic: 06041

Manifest No.: 55505

CLEAN UP LOAD

R3 technologies

R3 Technologies, Inc. • 7 Steel Road East • P.O. Box 847 • Morrisville, PA 19067-0847 • Phone: (215) 428-1700

NON-HAZARDOUS WASTE MANIFEST

1. EPA I.D. No., Generator of Waste:

Company Name: (Print or Type) Elements Pigments Inc

Pick-up Address: 1525 Wood Ave, Easton Pa.
(No.) (Street) (City) (State)

Telephone Number: _____ Fax Number: _____

Waste Stream Identification: This manifest represents a non-hazardous waste as per EPA and PA D.E.P. regulations.

Tons: _____ Cubic Yards: 20 Other: (Specify) _____

Waste Type: PETROLEUM CONTAM. SOIL

Special Handling Instructions, if any: NONE

PROFILE / WASTE STREAM I.D. NUMBER: PAD 001110104

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to applicable state and federal law. The wastes were consigned to the transporter named. I certify that the foregoing is true and correct to the best of my knowledge.

Date: 12/14/01 Signature: Clark Reynolds Engineering Manager
(Name and Title)

2. Hauler of Waste (must be filled in by hauler) EPA I.D. No.: _____ (if applicable)

COMPANY NAME: OVERLAND TRANS

ADDRESS: CLARKSBURG WV

Pick-up Date: 12-14-01 Truck No.: 595 Vehicle Lic. No.: AD130X WS

The above described waste was picked up and hauled by me to the disposal facility named below and was accepted. I certify under penalty of perjury that the foregoing is true and correct.

Paul [illegible]
(Signature of authorized agent and title)

3. Processing Facility: **R3 Technologies, Inc.**
7 Steel Road East
Morrisville, PA 19067-0847
Permit #301254

Waste subject to this manifest was delivered by the above hauler to this disposal facility and accepted on this date: _____

(Signature of authorized agent and title) 12-14-01

APPENDIX C

PHOTOGRAPH DOCUMENTATION OF SITE ACTIVITIES

Surface view of two 15,000-gallon No. 4 heating oil UST area.

Valve and piping vault associated with two 15,000-gallon UST's and two remote fill ports.

Fuel oil pump house associated with the two 15,000-gallon UST's.

Initiation of excavation over the two 15,000-gallon UST's.

Vent pipe removal activities.

Vacuum truck pumping contents of the two 15,000-gallon UST's.

Piping removal from pipe trench.

Exposed 15,000-gallon No. 4 fuel oil UST's (UST No. 6).

Piping removal from the pipe trench that leads from the pump house to the valve vault.

Clean fill material removal above and aside of the two UST's

Former valve vault and pipe trench location.

Petroleum impacted fill material removal.

No. 4 fuel oil free product on groundwater surface.

Exposed UST's ready for removal.

Removal of the UST's with a seventy-ton crane.

Removal of a 15,000-gallon UST from the excavation.

Maneuvering the UST's for loading on to trailers.

Placement of the UST on the truck for transport.

Removal of free product from groundwater surface.

Removal of free product from groundwater surface.

The two UST's emptied and ready for transport.

Installation of two 4-inch diameter well points for free product monitoring and extraction.

Load out of petroleum impacted soil for transport to disposal facility.

Load out of petroleum impacted soil for transport to disposal facility.

Load out of petroleum impacted soil for transport to disposal facility.

APPENDIX D

COMPLETE LABORATORY DATA PACKAGES

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33002
Field Sample ID: PE-2 3.5-4'

Collection Date: 10/12/01 Collection Time: 14:10
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Anthracene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Phenanthrene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Pyrene	77	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Benzo(a)anthracene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Chyrsene	110	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Benzo(b)fluoranthene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Benzo(a)pyrene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Benzo(g,h,i)perylene	<73	ug/kg	73	SS	10/25/01	17:00	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<210	ug/kg	210	LM	10/26/01	20:12	SW846 8260B
Naphthalene	<320	ug/kg	320	LM	10/26/01	20:12	SW846 8260B
% Solids	90.6	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33006
Field Sample ID: PE-3 9.5-10'

Collection Date: 10/18/01 Collection Time: 11:30
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Anthracene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Phenanthrene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Pyrene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Benzo(a)anthracene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Chyrsene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Benzo(b)fluoranthene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Benzo(a)pyrene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Benzo(g,h,i)perylene	<78	ug/kg	78	SS	10/25/01	15:37	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<220	ug/kg	220	LM	10/26/01	21:00	SW846 8260B
Naphthalene	<330	ug/kg	330	LM	10/26/01	21:00	SW846 8260B
% Solids	85.1	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

10/29/01

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33007
Field Sample ID: PE-4 9.5-10'

Collection Date: 10/18/01 Collection Time: 11:50
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Anthracene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Phenanthrene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Pyrene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Benzo(a)anthracene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Chyrsene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Benzo(b)fluoranthene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Benzo(a)pyrene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Benzo(g,h,i)perylene	<79	ug/kg	79	SS	10/25/01	16:04	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<240	ug/kg	240	LM	10/26/01	23:25	SW846 8260B
Naphthalene	<350	ug/kg	350	LM	10/26/01	23:25	SW846 8260B
% Solids	84.2	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33008
Field Sample ID: PE-5 9-9.5'

Collection Date: 10/18/01 Collection Time: 13:10
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Anthracene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Phenanthrene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Pyrene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Benzo(a)anthracene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Chyrsene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Benzo(b)fluoranthene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Benzo(a)pyrene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Benzo(g,h,i)perylene	<83	ug/kg	83	SS	10/25/01	16:32	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<240	ug/kg	240	LM	10/27/01	0:13	SW846 8260B
Naphthalene	<350	ug/kg	350	LM	10/27/01	0:13	SW846 8260B
% Solids	79.7	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33011
Field Sample ID: PE-6 7-7.5'

Collection Date: 10/19/01 Collection Time: 14:40
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	2600	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Anthracene	<790	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Phenanthrene	5500	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Pyrene	1200	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Benzo(a)anthracene	<790	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Chyrsene	1000	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Benzo(b)fluoranthene	<790	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Benzo(a)pyrene	<790	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Benzo(g,h,i)perylene	<790	ug/kg	790	SS	10/25/01	17:27	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<310	ug/kg	310	LM	10/27/01	1:01	SW846 8260B
Naphthalene	<470	ug/kg	470	LM	10/27/01	1:01	SW846 8260B
% Solids	83.6	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33012
Field Sample ID: PE-7 7-7.5'

Collection Date: 10/19/01 Collection Time: 14:50
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	4100	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Anthracene	<790	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Phenanthrene	7000	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Pyrene	1200	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Benzo(a)anthracene	<790	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Chyrsene	1100	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Benzo(b)fluoranthene	<790	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Benzo(a)pyrene	<790	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Benzo(g,h,i)perylene	<790	ug/kg	790	SS	10/25/01	17:55	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<230	ug/kg	230	LM	10/27/01	1:49	SW846 8260B
Naphthalene	1700	ug/kg	345	LM	10/27/01	1:49	SW846 8260B
% Solids	84.1	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by:

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33009
Field Sample ID: TRIP BLANK

Collection Date: 10/12/01 Collection Time: 0:00
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<230	ug/kg	230	LM	10/26/01	18:35	SW846 8260B
Naphthalene	<350	ug/kg	350	LM	10/26/01	18:35	SW846 8260B

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

11/1/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33003 Collection Date: 10/18/01 Collection Time: 9:35
Field Sample ID: GW-1 Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: WATE Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Phenanthrene	15	ug/l	2	SS	10/25/01	13:19	SW846 8270C
Pyrene	3	ug/l	2	SS	10/25/01	13:19	SW846 8270C
Chrysene	4	ug/l	2	SS	10/25/01	13:19	SW846 8270C
Oil, Fuel (Nos.4,5,6) Volatiles							
Benzene	<2	ug/L	2	LM	10/31/01	4:26	SW846 8260B
Naphthalene	22	ug/L	3	LM	10/31/01	4:26	SW846 8260B

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/31/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33004
Field Sample ID: GW-2

Collection Date: 10/18/01 Collection Time: 10:00
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: WATE Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Phenanthrene	4	ug/l	2	SS	10/25/01	12:51	SW846 8270C
Pyrene	<2	ug/l	2	SS	10/25/01	12:51	SW846 8270C
Chrysene	<2	ug/l	2	SS	10/25/01	12:51	SW846 8270C
Oil, Fuel (Nos.4,5,6) Volatiles							
Benzene	<2	ug/L	2	LM	10/30/01	19:33	SW846 8260B
Naphthalene	9	ug/L	3	LM	10/30/01	19:33	SW846 8260B

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/31/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33005 Collection Date: 10/18/01 Collection Time: 10:10
Field Sample ID: FIELD BLANK Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: WATE Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Phenanthrene	<2	ug/l	2	SS	10/25/01	12:23	SW846 8270C
Pyrene	<2	ug/l	2	SS	10/25/01	12:23	SW846 8270C
Chrysene	<2	ug/l	2	SS	10/25/01	12:23	SW846 8270C
Oil, Fuel (Nos.4,5,6) Volatiles							
Benzene	<2	ug/L	2	LM	10/30/01	12:21	SW846 8260B
Naphthalene	<3	ug/L	3	LM	10/30/01	12:21	SW846 8260B

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/31/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33010
Field Sample ID: TRIP BLANK

Collection Date: 10/18/01 Collection Time: 0:00
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: WATE Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Volatiles							
Benzene	<2	ug/L	2	LM	10/30/01	13:09	SW846 8260B
Naphthalene	<3	ug/L	3	LM	10/30/01	13:09	SW846 8260B

Comments:

Released by:

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

11/2/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33013 Collection Date: 10/18/01 Collection Time: 14:45
Field Sample ID: WC Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
PCBs (Dry Weight)							
Aroclor 1016	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1221	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1232	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1242	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1248	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1254	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Aroclor 1260	<0.30	mg/kg	0.30	DLB	10/23/91	16:22	SW846 8082
Mercury (Dry Weight)	<0.5	mg/kg	0.5	JLC	10/24/01	12:35	SW846 7471A
Metals, Heavy (Dry Weight)							
Arsenic	13	mg/kg	1	JLS	10/26/01	10:30	SW846 6010B
Barium	48.8	mg/kg	0.4	JLS	10/26/01	10:30	SW846 6010B
Cadmium	<0.4	mg/kg	0.4	JLS	10/26/01	10:30	SW846 6010B
Chromium	37.2	mg/kg	0.4	JLS	10/26/01	10:30	SW846 6010B
Lead	21	mg/kg	1	JLS	10/26/01	10:30	SW846 6010B
Selenium	<1	mg/kg	1	JLS	10/26/01	10:30	SW846 6010B
Silver	<0.6	mg/kg	0.6	JLS	10/26/01	10:30	SW846 6010B
Copper (Dry Weight)	150	mg/kg	0.4	JLS	10/26/01	10:30	SW846 6010B
Nickel (Dry Weight)	24.6	mg/kg	0.6	JLS	10/26/01	10:30	SW846 6010B
Zinc (Dry Weight)	372	mg/kg	1	JLS	10/26/01	10:30	SW846 6010B
Total Petro. Hydrocarb. (Dry	1182	mg/kg	10.0	DKJ	10/23/01	12:00	EPA 418.1
TOX (Dry Wt)	<10.0	mg/kg	10.0	OUT	11/2/01	0:00	SW846 9020B
Cyanide, Reactive	<2.5	mg/kg	2.5	AD	10/24/01	8:30	SW846 7.3.3.
pH-Corrosivity	7.7	pH Units	0.10	AD	10/22/01	11:00	SW846 9045C
Flash Point Ignitability	>140	degrees F	140	TH	10/22/01	14:30	SW846 1010

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

11/2/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33013
Field Sample ID: WC

Collection Date: 10/18/01 Collection Time: 14:45
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Sulfide, Reactive	60.1	mg/kg	50.0	AD	10/24/01	10:30	SW846 7.3.4.
% Solids	83.7	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

11/2/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33014
Field Sample ID: WC

Collection Date: 10/18/01 Collection Time: 14:45
Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Total Petro. Hydrocarb. (Dry	1501	mg/kg	10.0	DKJ	10/23/01	12:00	EPA 418.1
TOX (Dry Wt)	<10.0	mg/kg	10.0	OUT	11/2/01	0:00	SW846 9020B
% Solids	88.1	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____

WASTEX
INDUSTRIES, INC.

28 S. Hanover Street
Pottstown, PA 19464
610/327-0880

10/29/01

To: LANGAN ENG. & ENVIRON. SERV.INC
GEORGETOWN CROSSING SUITE 225
3655 ROUTE 202
DOYLESTOWN PA 18901
215-348-7101 FAX 215-348-7125

NJSRPID # :
Client Project # : 3576201
Client Project Name: ELEMENTIS-EASTON PA

Wastex Sample ID: AC33001 Collection Date: 10/12/01 Collection Time: 13:10
Field Sample ID: PE-1 3.5-4' Sample Collector CLIENT
Submittal Date: 10/19/01 Submittal Time: 19:15
Matrix: SO Sample Type: GRAB

Parameter	Result	Units	MDL	Analyst	Date Analyzed	Time Analyzed	Method Reference
Oil, Fuel (Nos.4,5,6) Semivols.							
Fluorene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Anthracene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Phenanthrene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Pyrene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Benzo(a)anthracene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Chyrsene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Benzo(b)fluoranthene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Benzo(a)pyrene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Benzo(g,h,i)perylene	<81	ug/kg	81	SS	10/25/01	14:14	SW846 8270C
Oil, Fuel (Nos. 4,5,6) Volatiles							
Benzene	<240	ug/kg	240	LM	10/26/01	19:24	SW846 8260B
Naphthalene	<360	ug/kg	360	LM	10/26/01	19:24	SW846 8260B
% Solids	82.4	%	0.01	AD	10/22/01	10:25	EPA 160.3

Comments:

Released by: _____